

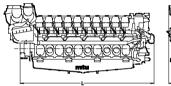
## Marine

## DIESEL ENGINES 20V 8000 M71/71L

for fast vessels with high load factors (1B)



Engine	Dimensions (L x W x H) mm (in)	Mass, dry kg (lbs)
M71/M71L	6645 x 2040 x 3375 (261.6 x 80.3 x 132.9)	45300 (98870)
		Mass, wet kg (lbs)





Typical applications: Ferries, large displacement yachts, OPVs, naval auxiliary vessels

Optional equipment and finishing shown. Standard may vary.

20V 8000 M71	20V 8000 M71L
8200	9100
(10995)	(12205)
1500	1500
20	20
265/315 (10.4/12.4)	265/315 (10.4/12.4)
347.4 (21200)	347.4 (21200)
EPA 2	EPA 2
IMO II	IMO II
	8200 (10995) 1500 20 265/315 (10.4/12.4) 347.4 (21200) EPA 2

<sup>1)</sup> IMO – International Maritime Organisation (Marpol-convention) EPA - US Marine Directive 40 CFR 94



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Fuel consumption 1)	20V 8000 M71	20V 8000 M71L
at rated power g/kWh	190	189
bhp	1877	2072
gal/hr	496	548

1) Tolerance +5% per ISO 3046, Diesel fuel to DIN EN 590 with a min L.H.V. of 42800 kJ/kg (18390 BTU/lb)

Standard equipment		
Starting system	Air starter motor, 15 bar; press. reduct. station 40/15 bar, coolant preheating system	
Oil system	Lube oil pump, automatic filter with backflushing, centrifugal oil filter, lube-oil heat exchanger, lube oil priming pump, lube oil level monitoring/replenishment system, switchboxes for lube oil replenishment and priming pumps	
Fuel system	Fuel delivery pump, fuel duplex filter with diverter valve, "common rail" fuel injection system with high-pressure pump, pressure accumulator and electronically fuel injection with cylinder cutout system, jacketed HP fuel lines, leak-off fuel tank level monitored, fuel hand pump, fuel pre-filter with water separator, fuel recooler	
Cooling system	MTU-split-circuit coolant system, coolant-to-raw water plate core heat exchanger, centrifugal raw water pump with priming system, coolant circulation pump, coolant expansion tank	
Combustion air system	Engine coolant temperature-controlled intercooler, sequential turbocharging with 4 water-cooled turbochargers, on-engine set of seawater-resistant combustion-air filters	
Exhaust system	Triple-walled, liquid-cooled, on-engine exhaust manifolds, exhaust bellows (horizontal discharge)	
Mounting system	Resilient mounts	
Power transmission	Torsional and offset compensating couplings	
Engine management system	Engine control and monitoring system (MDEC), interface to remote control and monitoring system, local operating panel (LOP)	
Interfaces	Flexible joints (hose lines, rubber bellows)	
Optional equipment		
Starting system	Compressed air tanks	
Monitoring/control system	Monitoring and control system MCS-5, remote control system RCS-5	
Gearbox options	Various gearbox models	
Classification	ABS, BV, CR, DNV, GL, KR, LR, NK, RINA incl. necessary extensions to scupe of supply	

## Reference conditions:

- > Power definition according ISO 3046
- > Intake air temperature 25°C/Sea water temperature 25°C
- > Intake air depression 15 mbar/Exhaust back pressure 30 mbar
- > Barometric pressure 1000 mbar
- > Power reduction at 45°C/32°C: none

Specifications are subject to change without notice. All dimensions are approximate, for complete information refer to installations drawing. For further information consult your MTU distributor/dealer.

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